

THE CLAIMS:

No claim changes are presented herein. For the Examiner's convenience, reproduced below is a complete listing of claims in the present application:

Claim 1 (previously presented): An image pickup apparatus comprising:

image pickup means;

encoding means for encoding a moving picture signal output from the image pickup means using an intraframe encoding method and an interframe encoding method to generate an encoded image signal, the encoded image signal including therein a plurality of picture groups each constituted by an image signal of n frames (n being an integer equal to or larger than two) including intraframe-encoded pictures obtained through intraframe encoding processing and interframe-encoded pictures obtained through interframe encoding processing;

recording means for recording the encoded image signal generated by the encoding means on a recording medium;

transmission means for transmitting the encoded image signal generated by the encoding means to an external apparatus while maintaining an encoded state of the encoded image signal; and

control means for controlling the encoding means and the recording means in accordance with an instruction to start a recording operation, issued during transmission of the encoded image signal by the transmission means, so as to start to record the encoded image signal from a frame thereof corresponding to the instruction to start the recording operation, and to change a number of intraframe-encoded pictures included in one picture group without

changing a number of frames included in one picture group when the instruction to start the recording operation is issued, so that a number of intraframe-encoded pictures included in each picture group generated after issuance of the instruction to start the recording operation is smaller than a number of intraframe-encoded pictures included in each picture group generated before the issuance of the instruction to start the recording operation.

Claims 2-3 (cancelled).

Claim 4 (previously presented): An image pickup apparatus according to claim 1, wherein the control means further controls the encoding means to insert one intraframe-encoded frame into each picture group after the issuance of the instruction to start the recording operation, and to insert a plurality of intraframe-encoded frames into each picture group before the issuance of the instruction to start the recording operation.

Claims 5-24 (cancelled).

Claim 25 (previously presented): An image pickup apparatus comprising:

image pickup means;

encoding means for encoding a moving picture signal output from the image pickup means using an intraframe encoding method and an interframe encoding method to generate an encoded image signal, the encoded image signal including therein a plurality of picture groups each constituted by an image signal of n frames (n being an integer equal to or

larger than two) including intraframe-encoded pictures obtained through intraframe encoding processing and interframe-encoded pictures obtained through interframe encoding processing;

recording means for recording the encoded image signal generated by the encoding means on a recording medium;

transmission means for transmitting the encoded image signal generated by the encoding means to an external apparatus while maintaining an encoded state of the encoded image signal; and

control means for controlling the encoding means and the recording means in accordance with an instruction to start a recording operation, issued during transmission of the encoded image signal by the transmission means, so as to start to record the encoded image signal from a frame thereof corresponding to the instruction to start the recording operation, and to change a rate of intraframe-encoded pictures included in one picture group without changing a rate of frames included in one picture group when the instruction to start the recording operation is issued, so that a rate of intraframe-encoded pictures included in each picture group generated after issuance of the instruction to start the recording operation is lower than a rate of intraframe-encoded pictures included in each picture group generated before the issuance of the instruction to start the recording operation.

Claim 26 (previously presented): An image pickup apparatus according to claim 25, wherein the control means further controls the encoding means to insert one intraframe-encoded frame into each picture group after the issuance of the instruction to start the recording operation, and to insert a plurality of intraframe-encoded frames into each picture group before the issuance of the

instruction to start the recording operation.

Claim 27 (previously presented): An image pickup method comprising steps of:

generating a moving picture signal;

encoding the moving picture signal using an intraframe encoding method and an interframe encoding method to generate an encoded image signal, the encoded image signal including therein a plurality of picture groups each constituted by an image signal of n frames (n being an integer equal to or larger than two) including intraframe-encoded pictures obtained through intraframe encoding processing and interframe-encoded pictures obtained through interframe encoding processing;

recording the encoded image signal on a recording medium;

transmitting the encoded image signal to an external apparatus while maintaining an encoded state of the encoded image signal; and

controlling the encoding step and the recording step in accordance with an instruction to start a recording operation, issued during transmission of the encoded image signal in the transmission step, so as to start to record the encoded image signal from a frame thereof corresponding to the instruction to start the recording operation, and to change a number of intraframe-encoded pictures included in one picture group without changing a number of frames included in one picture group when the instruction to start the recording operation is issued, so that a number of intraframe-encoded pictures included in each picture group generated after issuance of the instruction to start the recording operation is smaller than a number of intraframe-encoded pictures included in each picture group generated before the issuance of the

instruction to start the recording operation.

Claim 28 (previously presented): A method according to claim 27, wherein the control step includes controlling the encoding step to insert one intraframe-encoded frame into each picture group after the issuance of the instruction to start the recording operation, and to insert a plurality of intraframe-encoded frames into each picture group before the issuance of the instruction to start the recording operation.

Claim 29 (previously presented): An image pickup method comprising steps of:

generating a moving picture signal;

encoding the moving picture signal using an intraframe encoding method and an interframe encoding method to generate an encoded image signal, the encoded image signal including therein a plurality of picture groups each constituted by an image signal of n frames (n being an integer equal to or larger than two) including intraframe-encoded pictures obtained through intraframe encoding processing and interframe-encoded pictures obtained through interframe encoding processing;

recording the encoded image signal on a recording medium;

transmitting the encoded image signal to an external apparatus while maintaining an encoded state of the encoded image signal; and

controlling the encoding step and the recording step in accordance with an instruction to start a recording operation, issued during transmission of the encoded image signal in the transmission step, so as to start to record the encoded image signal from a frame thereof

corresponding to the instruction to start the recording operation, and to change a rate of intraframe-encoded pictures included in a picture group without changing a rate of frames included in a picture group when the instruction to start the recording operation is issued, so that a rate of intraframe-encoded pictures included in each picture group generated after issuance of the instruction to start the recording operation is lower than a rate of intraframe-encoded pictures included in each picture group generated before the issuance of the instruction to start the recording operation.

Claim 30 (previously presented): A method according to claim 29, wherein the control step includes controlling the encoding step to insert one intraframe-encoded frame into each picture group after the issuance of the instruction to start the recording operation, and to insert a plurality of intraframe-encoded frames into each picture group before the issuance of the instruction to start the recording operation.